

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2004/002667

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 E21B43/12 H02K15/03

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 923 111 A (ENO JAMES JOSEPH ET AL) 13 July 1999 (1999-07-13)	1,2,4-9
Y	column 1, line 13 - line 62; figure 1 -----	3
Y	US 6 388 353 B1 (LIU JOSEPH C ET AL) 14 May 2002 (2002-05-14) cited in the application column 2, line 62 - line 65; figure 2 -----	3
A	US 6 000 915 A (HARTMAN MICHAEL G) 14 December 1999 (1999-12-14) cited in the application column 13, line 25 - line 37; figure 7 -----	1
A	US 6 254 353 B1 (CAVAGNA STEFANO ET AL) 3 July 2001 (2001-07-03) column 3, line 19 - line 39; figure 1 -----	1

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the International search

27 September 2004

Date of mailing of the international search report

08.02.2005

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-9

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-9

A method of pumping wellbore liquid with an electric submersible pump at more than 4500 rpm.

2. claims: 10-15,26-29

A permanent magnet motor with a retaining sleeve

3. claims: 17-25,30-32

A motor having a rotor and a stator

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/002667

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5923111	A	13-07-1999	AU 1372599 A WO 9925055 A1	31-05-1999 20-05-1999
US 6388353	B1	14-05-2002	NONE	
US 6000915	A	14-12-1999	US 5951262 A AU 721827 B2 AU 6946698 A CA 2286095 A1 CN 1260862 T DE 19882347 T0 GB 2338516 A ,B JP 2001522425 T WO 9848167 A2	14-09-1999 13-07-2000 13-11-1998 29-10-1998 19-07-2000 30-03-2000 22-12-1999 13-11-2001 29-10-1998
US 6254353	B1	03-07-2001	CA 2285683 A1	06-04-2000